Fiber Optics: Color & Light Extension Name: _____

Optical fibers (or fiber optics) are made of ultra this strands of glass; light can be transmitted through optical fibers to carry information with it.

a) Do you think it would be faster to send information through optical fiber cables or electrical cables? Why?

Research fiber optics

b) When do scientists create optical fibers? Why?

c) How does light move through optical fibers?

d) How do telephone and T.V. companies use optical fiber cables?

e) Do airplanes and cars use optical fibers to transmit light? Explain.

f) Doctors use fiber optic endoscopes. How do you think these special endoscopes work? Do doctors use them in surgery?

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